

Institution: Hyderabad Institute of Technology and Management

Programme: B. Tech

Course developer: Dr. Devika SV

Course title: Antenna and Wave Propagation

Unit no. & title: Unit 1, Introduction to Antennas

Unit Learning Outcomes (UO)	Content Format	Title	Author / creator / institution	Source / URL	License (CC License)	CC Attribution (TASL)	Notes (how will use and deliver OER)
1. Explain the fundamental antenna engineering parameters and Antenna terminology. 2. Apply the basic concepts of electromagnetic wave radiation and reception. 3. Design prototypes of practical antennas with antenna parameters measurement 4. Analyse the atmospheric and terrestrial effects on radio wave propagation	Text	Antenna Parameters	Wikibooks	https://en.wikipedia.org/wiki/Antenna_(radio)	CC BY-SA	"Antenna (radio)" by Wikibooks is licensed under CC BY-SA 3.0	First 3 paragraphs to be taken
	Video	Practical Antennas	Dr. Naveen Kr Dewangan	https://youtu.be/ltgsglll_AE	CC BY	"Practical Antennas" by Dr. Naveen Kr Dewangan is licensed under CC BY 3.0	Convert into interactive video and create H5P activity on Moodle
	Image	Electro Magnetic Radiation and Reception	Wikimedia	https://commons.wikimedia.org/wiki/File:EM_Spectrum_Properties_edit.svg	CC BY-SA	"Electro Magnetic Radiation and Reception" is licensed under CC BY-SA 3.0	Electromagnetic properties
	Video	Digital Communication	NPTEL	https://www.digimat.in/nptel/courses/video/117101051/L01.html	CC BY NC SA 4.0	"Electro Magnetic Radiation and Reception" is licensed under CC BY-SA 3.0	Time: 32.09 Minutes 1. Role of Digital Communication a) To convert analog signal into digital signal b) To convert digital signal into analog signal c) To Add Noise with the signal d) All are correct Time: 45.16 Minutes 2. What is Spectrum in communication? a) Group of channels b) Group of signals c) Group of noises d) All are correct Time: 11.16 Minutes 3. Examples of Communication channel? a) Wireline

							b) c) d)	Fiber Optic Cable Acoustic channel All the above
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